

Name \_\_\_\_\_

1. Explain why the result (answer) is positive or negative.

a)  $\frac{2}{-3} \times \frac{1}{2}$     b)  $\frac{8}{-5} \times (\frac{-4}{-11})$     c)  $\frac{-4}{7} \times (\frac{-2}{3})$     d)  $-1\frac{2}{3} \times (\frac{-5}{6})$

e)  $\frac{-7}{8} \times (\frac{3}{-6}) \times (\frac{-5}{6})$

2. Find the product

a)  $\frac{5}{6} \times (\frac{-8}{8})$     b)  $\frac{3}{5} \times (\frac{-4}{7})$     c)  $\frac{-1}{8} \times (\frac{-3}{7})$     d)  $\frac{1}{-6} \times (\frac{-5}{-3})$

e)  $\frac{3}{-4} \times (\frac{-8}{9})$     f)  $\frac{-7}{11} \times (-1\frac{4}{7})$

3. Will the result be positive or negative? Solve.

a)  $\frac{-2}{3} \times (\frac{6}{-7})$     b)  $\frac{-3}{-8} \times (\frac{-11}{12})$     c)  $-5\frac{1}{3} \times \frac{4}{5}$     d)  $\frac{4}{-9} \times (\frac{-21}{10}) \times (\frac{-3}{10})$

4. When a raccoon goes into hibernation, its heart rate falls  $4\frac{1}{2}$  beats per hour for  $7\frac{1}{3}$  h. What is the total change in the raccoon's heart rate during that time?

5. Petra's pulse rate during exercise was 27 beats in 12 s. After  $7\frac{1}{2}$  minute rest, her pulse rate was 20 beats in 15 seconds.

- a) What was her pulse rate in beats per minute during exercise?
- b) What was her pulse rate in beats per minute after a rest?
- c) Find the change in her pulse rate per minute if it dropped the same amount per minute.